

CLAIMS

5 1. A multi-layered tamper-evident tape comprising of a first and second film wherein the first surface of the first film is coated with an adhesive layer; a failure layer between the first and second film comprising of layers of adhesive, ink and primer; and the second surface of the second film is coated with a release layer.

10 2. A tape according to claim 1 wherein the first surface of the second film is coated with a primer layer in certain areas and then coated with a layer of colored ink all over the area, and the second surface of the first film is  
15 coated with a layer of adhesive.

20 3. A tape according to claim 1 wherein the first surface of the second film is coated with an adhesive and the second surface of the first film is coated with primer layer in certain areas and then coated with a layer of colored ink all over the entire area of said second surface.

25 4. A tape according to claim 1 wherein the adhering force between the first and second films is weaker than the adhering force between the inner surface of the tape and the packaging substrate.

30 5. A tape according to any one of claims 1 to 4 wherein the second surface of the second film is coated with a release layer.

6. A tape according to any one of claims 1 to 5 wherein the release layer comprise silicone.

7. A tape according to any of claims 1 to 5 wherein the margins of the first surface of the second film and/or the second surface of the first film are coated with a release layer to create lift stripes.

5 8. A tape according to any of claims 1 to 7 wherein the lift stripes, the ink layer and primer layer comprise of materials selected from among a group comprising of water based, solvent-based flexographic printing inks, UV-curing flexographic printing inks, resin dispersions, acrylate dispersion and polymer dispersions.

10 9. A tape according to claim 1 wherein the adhesive on the first surface of the first film and the adhesive at the failure layer is selected from among a group comprising of heat activated or pressure sensitive adhesives (PSA).

15 10. A tape according to claim 9 wherein said adhesives are selected from among a group of adhesives comprising of water based, solvent based, UV curing or hot melt based, comprising of acrylic polymers and/or thermoplastic rubber and/or hydrocarbon resins or rosins.

20 11. A tape according to claims 1 wherein the first and second film are constructed of materials selected from among a group comprising of polyester(PET), styrene, polypropylene, polyethylene, polyvinyl chloride (PVC), unplasticized PVC, polyamides or other suitable polyolefins films, nonwovens and papers.

25 12. A tape according to claim 1 wherein the first film has a machine direction tensile strength of 5-70 Newton/inch.

30 13. A tape according to claim 1 wherein the first film is perforated.

14. A tape according to any of claims 1 to 8 wherein the second film separates from the first film and displays tamper evidence figures when an attempt is made to peel said tape from the surface to which it is adhered.

15. A method for closing and/or sealing boxes, packages, bottles, containers, articles and luggage comprising of applying the tape claimed in any of claims 1 to 12 to said packaging.

16. A process for the manufacture of a tamper evident tape comprising (a) incorporating a failure layer between two films; (b) coating the first surface of the first film with an adhesive; and (c) coating the second surface of the second film with a release layer.

17. A process according to claim 16 wherein the incorporation of the failure layer between the films is carried out by a process comprising of (a) applying primer to certain areas of the first surface of the second film creating a particular pattern; (b) then applying colored ink over the first surface of the second film; (c) then coating the first surface of the second film with a layer of adhesive; and (d) applying the first film to the adhesive layer of the first surface of the second film.

18. A process according to claim 17 wherein the primer is applied in a pattern matching the desired tamper-evident message.

19. A process according to claim 17 wherein the primer is applied over the entire surface with the exception of

certain areas, said areas being in a pattern of the desired tamper evident message.

5 20. A process according to claim 16 wherein the incorporation of the failure layer between the films is carried out by a process comprising of (a) applying primer to certain areas of the second surface of the first film creating a particular pattern; (b) then applying colored ink over the second surface of the first film; (c) then coating the second surface of the first film with a layer of adhesive; and (d) applying the second film to the adhesive layer of the second surface of the first film.

15 21. A process according to claim 20 wherein the primer is applied in a pattern matching the desired tamper-evident message.

20 22. A process according to claim 20 wherein the primer is applied over the entire surface with the exception of certain areas, said areas being in a pattern of the desired tamper evident message.

25 23. A process according to any of claims 16 to 22 comprising of applying a release layer along the margins of the first surface of the second film and/or the second surface of the first film.